MGG

Molecular & General Genetics

An International Journal

Continuation of Zeitschrift für Vererbungslehre The First Journal on Genetics Founded in 1908

Volume 254 1997

Editorial Board

W. Arber, Basel

M. Ashburner, Cambridge

E. Bautz, Heidelberg

J. Campos-Ortega, Köln

E. Cerdá-Olmedo, Sevilla

R. Devoret, Orsay

D.J. Finnegan, Edinburgh

W.M. Gelbart, Cambridge

G.P. Georgiev, Moscow

W. Goebel, Würzburg

R. Hagemann, Halle

R.G. Herrmann, München

C.P. Hollenberg, Düsseldorf

C.A.M.J.J. van den Hondel,

Rijswijk

H. Ikeda, Tokyo

K. Illmensee, Innsbruck

K. Isono, Kobe

G. Jürgens, Tübingen

B.J. Kilbey, Edinburgh

A. Kondorosi, Gif-sur-Yvette

J. Lengeler, Osnabrück

D.M. Lonsdale, Cambridge

G. Melchers, Tübingen

H. Saedler, Köln

J. Schell, Köln

D.Y. Thomas, Montreal





Founded in 1908 as *Zeitschrift für induktive Abstammungs- und Vererbungslehre*. From Vol. 89 (1958) to Vol 98 (1966) published under the title *Zeitschrift für Vererbungslehre*, as of Vol. 99 (1967) under the title *Molecular & General Genetics*. From Vol. 1 (1908) to 81 (1944) published by Gebr. Bornträger, Berlin; Vol. 82 (1948) and subsequent volumes, Springer Berlin.

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out: that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher; and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as off-prints), all translation rights as well as the rights to publish the article in any electronic form. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this

publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA: Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0025-3162, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

This journal is included in both the Springer Journals Preview Service and the ADONIS service. The Springer Journals Preview Service offers the tables of contents and BiblioAbstracts via Internet several weeks before the new issue reaches the subscribers. Tables of contents are free of charge; BiblioAbstracts are available for a small annual fee. Details can be obtained by sending an e-mail message containing the line help to svjps@springer.de. In the ADONIS service copies of individual articles can be printed out from compact discs (CD-ROM) on demand. An explanatory leaflet giving further details of the scheme is available from the publishers on request.

The Canada Institute for Scientific and Technical Information (CISTI) provides a comprehensive, world-wide document delivery service for all Springer-Verlag journals. For more information, or to place an order for a copyright-cleared Springer-Verlag document please contact Client Assistant, Document Delivery, CISTI, Ottawa K1A 0S2, Canada (Tel. 6 13/9 93-92 51; FAX (6 13) 9 52-82 43; e-mail: cisti.docdel@nrc.ca).

Typesetting: SPS Madras (P) Ltd., India

Printers: Saladruck GmbH, Berlin, Germany

© Springer-Verlag Berlin Heidelberg 1997 Springer-Verlag GmbH & Co. KG, Berlin, Germany

Contents

No. 1 - 1-110 issued March 1997 No. 2 - 111-218 issued March 1997 No. 3 - 219-344 issued April 1997 No. 4 - 345-468 issued April 1997 No. 5 - 469-610 issued May 1997 No. 6 - 611-696 issued May 1997

new genomes in the Oryza complex identified on the basis of molecular divergence analysis using total genomic DNA hybridization 1 Agostoni Carbone ML → Brambilla A Akada R, Yamamoto J, Yamashita I: Screening and identification of yeast sequences that cause growth inhibition when over-expressed 267 Alonso JC → Âyora S Andrenacci D → Cavaliere V Aoyama A → Kato M Arai K → Ohtoshi A Asakawa S → Nakamura S Ayora S, Stiege AC, Lurz R, Alonso JC:

Aggarwal RK, Brar DS, Khush GS: Two

Babst M → Minder AC Bae JM, Liu JR: Molecular cloning and characterization of two novel isoforms of the small subunit of ADPglucose py rophosphorylase from sweet potato 179 Balasubramanian MK → Kemp JT

Bacillus subtilis 168 RecR protein-

DNA complexes visualized as looped

Barbey $R \rightarrow Thomas D$ Barker PJ \rightarrow Carter AT Barry CS \rightarrow Blume B

structures 54

Becker H-A, Kunze R: Maize Activator transposase has a bipartite DNA binding domain that recognizes subterminal sequences and the terminal inverted repeats 219 Beiche F → Carter AT

Berberich T, Kusano T: Cycloheximide induces a subset of low temperatureinducible genes in maize 275 Bertauche N → Savouré A

Bertram-Drogatz PA, Rüberg S, Becker A, Pühler A: The regulatory protein MucR binds to a short DNA region located upstream of the mucR coding region in Rhizobium meliloti 529

Bhadra U, Pal-Bhadra M, Birchler JA: A trans-acting modifier causing extensive overexpression of genes in Drosophila

melanogaster 621 Bibb MJ → van Wezel GP Birchler JA → Bhadra U

Black CG, Fyfe JAM, Davies JK: Cloning, nucleotide sequence and transcriptional analysis of the uvrA gene from Neisseria gonorrhoeae 479

Blume B, Barry CS, Hamilton AJ, Bouzayen M, Grierson D: Identification of transposon-like elements in noncoding regions of tomato ACC oxidase genes 297

Boehmer PE → Phillips RJ Boiteux S → Thomas D Borisov AY, Rozov SM, Tsyganov VE,

Morzhina EV, Lebsky VK, Tikhonovich IA: Sequential functioning of Sym-13 and Sym-31, two genes affecting symbiosome development in root nodules of pea (Pisum sativum L.) 592

Bouzayen M → Blume B Brambilla A. Mainieri D. Agostoni Carbone ML: A simple signal element mediates transcription termination and mRNA 3' end formation in the DEGI gene of Saccharomyces cerevisiae 681

Brevet $J \rightarrow \text{Hansen G}$ Brouwer $J \rightarrow \text{Verhage RA}$

Burchhardt G, Schmidt I, Cuypers H, Petruschka L, Völker A, Herrmann H: Studies on spontanous promoter-up mutations in the transcriptional activatorencoding gene phIR and their effects on the degradation of phenol in Escherichia coli and Pseudomonas putida 539

Brar DS → Aggarwal RK Brygoo Y → Levis C Burke DJ, Sethi N: A change in sister chromatid behavior precedes nuclear division in Saccharomyces cerevisiae

Burnol A-F → Sladeczek F

Cabezón E, Ignacio Sastre J, Cruz F de la: Genetic evidence of a coupling role for the TraG protein family in bacterial conjugation 400 Camonis JH → Sladeczek F

Carter AT. Beiche F. Hove-Jensen B. Narbad A. Barker PJ. Schweizer LM. Schweizer M: PRS1 is a key member of the gene family encoding phosporibosylpyrophosphate synthetase in Saccharomyces cerevisiae 148

Cavaliere V, Spanò S, Andrenacci D, Cortesi L, Gargiulo G: Regulatory elements in the promoter of the vitelline membrane gene VM32E of Drosophila melanogaster direct gene expression in distinct domains of the follicular

epithelium 231 Cederberg $H \rightarrow Maleki S$

Chae S-K, Kafer E: Two uvs genes of Aspergillus nidulans with different functions in error-prone repair: uvsl, active in mutation-specific reversion, and uvsC, a recA homolog, required for all UV mutagenesis 643 Chikashige Y → Shimanuki M

Clérot D → Hansen G Cook GM → Membrillo-Hernández J Cortesi L → Cavaliere V Coquard D, Huecas M, Ott M, van Dijl JM, van Loon APGM, Hohmann H-P: Molecular cloning and characterisation of the ribC gene from Bacillus subtilis: a point mutation in ribC results in riboflavin overproduction 81

Das HK → Manna AC Davies PL → Duncker BP Delgadillo DM → Orozco E Del Sorbo G, Andrade AC, Van Nistelrooy JGM, Van Kan JAL, Balzi E, De Waard MA: Multidrug resistance in Aspergillus nidulans involves novel ATP-binding cassette transporters 417

Devos KM → Mao L Ding D-Q → Shimanuki M Dorman CJ → Dove SL

Dove SL, Smith SGJ, Dorman CJ: Control of Escherichia coli tape 1 fimbrial gene expression in stationary phase: a negative role for RpoS 13

Duncker BP, Davies PL, Walker VK: Introns boost transgene expression in Drosophila melanogaster 291

Durr A → Plesse B

Emmerson PT → Phillips RJ Entian K-D → Peschel A

Furuichi Y → Kimura T

Fischer H-M → Minder AC Fleck J → Plesse B Fortini D → Levis C Freedman T, Pukkila PJ: A physical assay for meiotic recombination in Coprinus cinereus 372 Fujiwara S → Jongsareejit B Fukui K → Nakamura S Fukasawa K → Habu YJ

Gale MD → Mao L Gardner DCJ → Ribeiro-dos-Santos G Gardner RC → Schott EJ Gargiulo G → Cavaliere V Genschik P → Plesse B Gharaibeh R → Orozco E Giladi H → Obuchowski M Goosen T → van Heemst D Götz F → Peschel A Gómez Conde E → Orozco E Gould KL → Kemp JT Gresshoff PM → Kolchínsky A Grierson D → Blume B

Habu Y, Peyachoknagul S, Sakata Y, Fukasawa K, Ohno T: Evolution of a multigene family that encodes the Kunitz



chymotrypsin inhibitor in winged bean: a possible intermediate in the generation of a new gene with a distinct pattern of expression 73

Hamilton AJ → Blume B

Hansen G, Vaubert D, Clérot D, Brevet J: Wound-inducible and organ-specific expression of ORF13 from Agrobacterium rhizogenes 8196 T-DNA in transgenic tobacco plants 337

Hansson M → Kannangara CG Henikoff S → Pietrokovski S Hennecke H → Minder AC

Hershkovits G. Dubinsky Z. Katcoff DJ: A novel homologue of the prokaryotic htrA gene is differentially expressed in the alga Haematococcus pluvialis following stress 345

Heyn J \rightarrow Verhage RA Heyting C \rightarrow van Heemst D Hickleton DC \rightarrow Phillips RJ

Higashitani A, Ishii Y, Kato Y, Horiuchi K: Functional dissection of a cell-division inhibitor, SulA, of Escherichia coli and its negative regulation by Lon 351

Hille $M \to Peschel A$ Hiraoka $Y \to Shimanuki M$ Hoang TT, Schweizer HP: Identification and genetic characterization of the Pseudomonas aeruginosa leuB gene encoding 3-isopropylmalate dehydrogenase 166

Hohmann H-P → Coquard D Holub EF → van Heemst D Horio T → Shimanuki M Hove-Jensen B → Carter AT Hua X-J \rightarrow Savouré A Huecas M \rightarrow Coquard D

Ichikawa H → Makino S Iimura Y → Kimura T Iino Y, Yamamoto M: The Schizosaccharomyces pombe cdc6 gene encodes the catalytic subunit of DNA polymerase δ

Imanaka T → Jongsareejit B

Jongsareejit B, Fujiwara S, Imanaka T: Gene cloning, sequencing and enzymatic properties of glutamate synthase from the hyperthermophilic archaeon Pyrococcus sp. KOD1 635

Kafer $E \rightarrow Chae S-K$ Kana-uchi A, Yamashiro CT, Tanabe S, Murayama T: A ras homologue of Neurospora crassa regulates morphology

Kannangara CG, Vothknecht UC, Hansson M, Wettstein D von: Magnesium chelatase: association with ribosomes and mutant complementation studies identify barley subunit Xantha-G as a functional counterpart of Rhodobacter subunit BchD 85

Kato M, Aoyama A, Naruse F, Kobayashi T, Tsukagoshi N: An Aspergillus nidulans nuclear protein, AnCP, involved in enhancement of Taka-amylase A gene

expression, binds to the CCAAT-containing taaG2, amdS, and gatA promoters 119

Kawasaki S → Nakamura S Kemp JT, Balasubramanian MK, Gould KL: A wat1 mutant of fission yeast is defective in cell morphology 127

Kevei F, Tóth B, Coenen A, Hamari Z, Varga J. Croft JH: Recombination of mitochondrial DNAs following transmission of mitochondria among incompatible strains of black Aspergilli 379

Khush GS → Aggarwal RK Kim MS, Kim S, Kim SC, Lee YM, Jeon

ES, Park CU, Lee Y: The Brevibacterium albidum gene encoding the arginine tRNA_{CCG} complements the growth defect of an Escherichia coli strain carrying a thermosensitive mutation in the rnpA gene at the nonpermissive temperature 464

Kimura T. Kitamoto N. Kito Y. Iimura Y. Shirai T, Komiyama T, Furuichi Y, Sakka K, Ohmiya K: A novel yeast gene, RHK1, is involved in the synthesis of the cell wall receptor for the HM-1 killer toxin that inhibits, -1,3-glucan synthesis 139

Kitamoto N → Kimura T Kito Y → Kimura T Kobayashi T → Kato M Koby S → Obuchowski M

Kolchínsky A, Landau-Ellis D, Gresshoff PM: Map order and linkage distances of molecular markers close to the supernodulation (nts-1) locus of

soybean 29 Komiyama T → Kimura T Korhola M → Naumova FS

Kostrub CF, Al-Khodairy F, Ghazizadeh H, Carr AM, Enoch T: Molecular analysis of hus1+, a fission yeast gene required for S-M and DNA damage checkpoints 389

Krohn BM, Barry GF, Kishore GM: An isoamylase with neutral pH optimum from a Flavobacterium species: cloning. characterization and expression of the

iam gene 469 Kubis S → Wandt G Kunze R → Becker H-A Kusano T → Berberich T

Kutsukake K: Autogenous and global control of the flagellar master operon, flhD, in Salmonella typhimurium 440

Landau-Ellis D → Kolchínsky A Le Bouffant F → Sladeczek F Lebsky VK → Borisov AY

Levis C, Fortini D, Brygoo Y: Flipper, a mobile Fot1-like transposable element in Botrytis cinerea 674

Linden H, Rodriguez-Franco M, Macino G: Mutants of Neurospora crassa defective in regulation of blue light perception 111

Lindhout P → Qi X $Liu JR \rightarrow Bae JM$ Lopez O → Soberón M López-Revilla R → Orozco E Lurz R → Ayora S

Macino G → Linden H Maffey L. Degand H. Boutry M: Partial purification of mitochondrial ribosomes from broad bean and identification of proteins encoded by the mitochondrial genome 365

Mainieri D → Brambilla A

Makino S, Qu JN, Uemori K, Ichikawa H. Ogura T, Matsuzawa H: A silent mutation in the ftsH gene of Escherichia coli that affects FtsH protein production and colicin tolerance 578

Maleki S, Cederberg H, Rannug U: Mutations occurring at the human minisatellite MS1 integrated in haploid yeast are similar to MS1 mutations in humans 37

Manna AC, Das HK: Characterization and mutagenesis of the leucine biosynthetic genes of Azotobacter vinelandii: an analysis of the rarity of amino acid auxotrophs 207

Mao L, Devos KM, Zhu L, Gale MD: Cloning and genetic mapping of wheat telomere-associated sequences 584

Marbach J → Plesse B Masai H → Ohtoshi A Masamune Y → Yasukawa H Matsuzawa H → Makino S

Membrillo-Hernández J, Cook GM, Poole RK: Roles of RpoS (σ^S), IHF and ppGpp in the expression of the hmp gene encoding the flavohemoglobin (Hmp) of Escherichia coli K-12 599

Mercado M → Orozco E Miki F → Shimanuki M Minder AC, Narberhaus F, Babst M,

Hennecke H, Fischer H-M: The dnaKJ operon belongs to the σ³²-dependent class of heat shock genes in Bradyrhizobium japonicum 195

Miranda J → Soberón M Miyake T → Ohtoshi A Morera C → Soberón M Morzhina EV → Borisov AY Motoyoshi F → Ohshima S

Mullin DA, Zies DL, Mullin AH, Caballera N, Elv B: Genetic organization and transposition properties of IS511 456 Murata M → Ohshima S

Nakahama K → Yasukawa H Nakamura S, Asakawa S, Ohmido N, Fukui K, Shimizu N, Kawasaki S: Construction of an 800-kb contig in the near-centromeric region of the rice blast resistance gene Pi-ta2 using a highly representative rice BAC library 611

Nakayama S, Kaiser K, Aigaki T: Ectopic expression of sex-peptide in a variety of tissues in Drosophila females using the P[GAL4] enhancer-trap system 449

Naumov GI → Naumova FS

Naumova FS, Turakainen H, Naumov GI, Korhola M: Superfamily of α-galactosidase MEL genes of the Saccharomyces sensu stricto species complex 609

Narbad A \rightarrow Carter AT Narberhaus F \rightarrow Minder AC Naruse F \rightarrow Kato M Niwa O \rightarrow Shimanuki M

Obuchowski M, Giladi H, Koby S, Szałewska-Palasz A, Węgrzyn A, Oppenheim AB, Thomas MS, Węgrzyn G: Impaired lysogenisation of the *Escherichia coli rpoA341* mutant by bacteriophage λ is due to the inability of CII to act as a transcriptional activator 304

Offenberg HH → van Heemst D Ogura M, Tanaka T: *Bacillus subtilis* ComK negatively regulates *degR* gene expression 157

Ogura $T \rightarrow Makino S$ Ogura $Y \rightarrow Ohshima S$ Ohmido $N \rightarrow Nakamura S$

Ohtoshi A, Miyake T, Arai K, Masai H: Analyses of *Saccharomyces cerevisiae* Cdc7 kinase point mutants: dominantnegative inhibition of DNA replication on overexpression of kinase-negative Cdc7 proteins 562

Ohmiya $K \to Kimura T$ Ohno $T \to Habu YJ$

Ohshima S, Murata M, Sakamoto W, Ogura Y, Motoyoshi F: Cloning and molecular analysis of the *Arabidopsis* gene *Terminal Flower 1* 186
Oliver SG → Ribeiro-dos-Santos G

Oppenheim AB → Obuchowski M Orozco E, Gharaibeh R, Riverón AM, Delgadillo DM, Mercado M, Sánchez T, Gómez Conde E, Vargas MA, López-Revilla R: A novel extonlasmic structure

Revilla R: A novel cytoplasmic structure containing DNA networks in *Entamoeba histolytica* trophozoites 250

Ott M → Coquard D Ozaki E → Yasukawa H

Ozaki E — Yasukawa H
Ozeki Y, Davies E, Takeda J: Somatic
variation during long term subculturing
of plant cells caused by insertion of a
transposable element in a phenylalanine
ammonia-lyase (PAL) gene 407

Padula M → Thomas D
Pal-Bhadra M → Bhadra U
Peabody DS: Role of the coat Protein-RNA
interaction in the life cycle of bacteriophage MS2 358

Peschel A, Schnell N, Hille M, Entian K-D, Götz F: Secretion of the lantibiotics epidermin and gallidermin: sequence analysis of the genes *gdmT* and *gdmH*, their influence on epidermin production and their regulation by EpiQ 312

Peyachoknagul S → Habu YJ
Phillips RJ, Hickleton DC, Boehmer PE,
Emmerson PT: The RecB protein of
Escherichia coli translocates along
single-stranded DNA in the 3′ to 5′
direction: a proposed ratchet mechanism
319

Pietrokovski S, Henikoff S: A helix-turnhelix DNA-binding motif predicted for transposases of DNA transposons 689 Plesse B, Durr A, Marbach J, Genschik P, Fleck J: Identification of a new *cis*regulatory element in a *Nicotiana tabacum* polyubiquitin gene promoter 258

Poole RK → Membrillo-Hernández J Postma PW → van Wezel GP

Qu JN → Makino S Quiñones A → Wandt G Qi X, Lindhout P: Development of AFLP markers in barley 330

Rannug U → Maleki S Ribeiro-dos-Santos G, Schenberg ACG, Gardner DCJ, Oliver SG: Enhancement of Ty transposition at the *ADH4* and *ADH2* loci in meiotic yeast cells 555 Riverón AM → Orozco E Rodriguez-Franco M → Linden H

Rozov SM \rightarrow Borisov AY

Sakata Y → Habu YJ
Sakamoto W → Ohshima S
Sakka K → Kimura T
Saleki R, Jia Z, Karagiannis J, Young PG:
Tolerance of low pH in Schizosaccharomyces pombe requires a functioning pub1 ubiquitin ligase 520
Sánchez T → Orozco E

Sasamura T, Kobayashi T, Kojima S, Qadota H, Ohya Y, Masai I, Hotta Y: Molecular cloning and characterization of *Drosophila* genes encoding small GT-Pases of the *rab* and *rho* families 486

Savouré A, Hua X-J, Bertauche N, Van Montagu M, Verbruggen N: Abscisic acid-independent and abscisic acid-dependent regulation of proline biosynthesis following cold and osmotic stresses in *Arabidopsis thaliana* 104

Schenberg ACG → Ribeiro-dos-Santos G Schlesinger R, Kahmann R, Kämper J: The homeodomains of the heterodimeric bE and bW proteins of *Ustilago maydis* are both critical for function 514

Schnell N → Peschel A Schott EJ, Gardner RC: Aluminiumsensitive mutants of *Saccharomyces* cerevisiae 63

Schweizer HP → Hoang TT Schweizer LM → Carter AT Schweizer M → Carter AT Scott AD → Thomas D

Scott AD, Waters R: Inducible nucleotide excision repair (NER) of UV-induced cyclobutane pyrimidine dimers in the cell cycle of the budding yeast *Saccharomyces cerevisiae*: evidence that inducible NER is confined to the G1 phase of the mitotic cell cycle 43

Sethi N → Burke DJ
Shimanuki M, Miki F, Ding D-Q, Chikashige Y, Hiraoka Y, Horio T, Niwa O:
A novel fission yeast gene, kms1+, is required for the formation of meiotic prophase-specific nuclear architecture 238

Shimizu N → Nakamura S

Shirai T → Kimura T Siddiqui MA, Fujiwara S, Imanaka T: Indolepyruvate ferredoxin oxidoreductase from *Pyrococcus* sp. KOD1 possesses a mosaic structure showing features of various oxidoreductases 433

Sladeczek F, Camonis JH, Burnol A-F, Le Bouffant F: The Cdk-like protein PCTAIRE-1 from mouse brain associates with p11 and 14-3-3 proteins 571 Smith SGJ → Dove SL

Soberón M, Lopez O, Miranda J, Tabche ML, Morera C: Genetic evidence for 5-aminoimidazole-4-carboxamide ribonucleotide (AICAR) as a negative effector of cytochrome terminal oxidase *cbb*₃ production in *Rhizobium etli* 665

Spanò S → Cavaliere V Stiege AC → Ayora S Swart K → van Heemst D Szałewska-Palasz A → Obuchowski M

Tabche ML → Soberón M
Tanaka T → Ogura M
Thomas D, Scott AD, Barbey R, Padula M,
Boiteux S: Inactivation of *OGGI* increases the incidence of G · C→T · A
transversions in *Saccharomyces cere- visiae*: evidence for endogenous oxidative damage to DNA in eukaryotic cells
171

Thomas MS → Obuchowski M Tikhonovich IA → Borisov AY Todd RB, Murphy RL, Martin HM, Sharp JA, Davis MA, Katz ME, Hynes MJ: The acetate regulatory gene facB of Aspergillus nidulans encodes a Zn(II)2Cys6 transcriptional activator 495

Tsukagoshi N \rightarrow Kato M Tsyganov VE \rightarrow Borisov AY Turakainen H \rightarrow Naumova FS

Uemori K → Makino S

van de Putte P → Verhage RA van den Broek HWJ → van Heemst D van Dijk R \rightarrow van Heemst D van Dijl JM \rightarrow Coquard D van Heemst D, Swart K, Holub EF, van Dijk R, Offenberg HH, Goosen T, van den Broek HWJ, Heyting C: Cloning, sequencing, disruption and phenotypic analysis of uvsC, an Aspergillus nidulans homologue of yeast RAD51 654 $\begin{array}{c} \text{Van Montagu M} \to \text{Savour\'e A} \\ \text{van Loon APGM} \to \text{Coquard D} \end{array}$ van Wezel GP, White J, Bibb MJ, Postma PW: The malEFG gene cluster of Streptomyces coelicolor A3(2): characterization, disruption and transcriptional analysis 604 Vargas MA \rightarrow Orozco E Vaubert D \rightarrow Hansen G Verbruggen N → Savouré A Verhage RA, Heyn J, van de Putte P, Brouwer J: Transcription elongation

factor S-II is not required for transcrip-

tion-coupled repair in yeast 284

Vothknecht UC → Kannangara CG

Walker VK → Duncker BP Wandt G, Kubis S, Quiñones A: Treatment with DNA-damaging agents increases expression of polA'-'lacZ gene fusions in Escherichia coli K-12 98 Warren AM, Hughes MA, Crampton JM: *Zebedee:* A novel *copia-Ty1* family of transposable elements in the genome of the medically important mosquito *Aedesaegypti* 505

Waters R \rightarrow Scott AD Wegrzyn A \rightarrow Obuchowski M Wegrzyn G \rightarrow Obuchowski M Wettstein D von \rightarrow Kannangara CG White J \rightarrow van Wezel GP Yamamoto J → Akada R Yamashita I → Akada R Yamamoto M → Iino Y Yasukawa H, Ozaki E, Nakahama K, Masamune Y: HU protein binding to the replication origin of the rolling-circle plasmid pKYM enhances DNA replication 548

Zhu L → Mao L